STORMWATER FACT SHEET: CONSTRUCTION SITE STORMWATER BMP MAINTENANCE TIPS

Quick facts on… **The Maintenance of Erosion & Sediment Control BMPs on Construction Sites**

PURPOSE: Provide a quick reference guide for the maintenance of several commonly used construction site erosion and sediment control BMPs.

HOW TO USE THIS GUIDE: For a particular BMP, review the photo and read the accompanying caption for key points on the proper maintenance of the BMP. Refer to your SWPPP for actual maintenance guidelines.

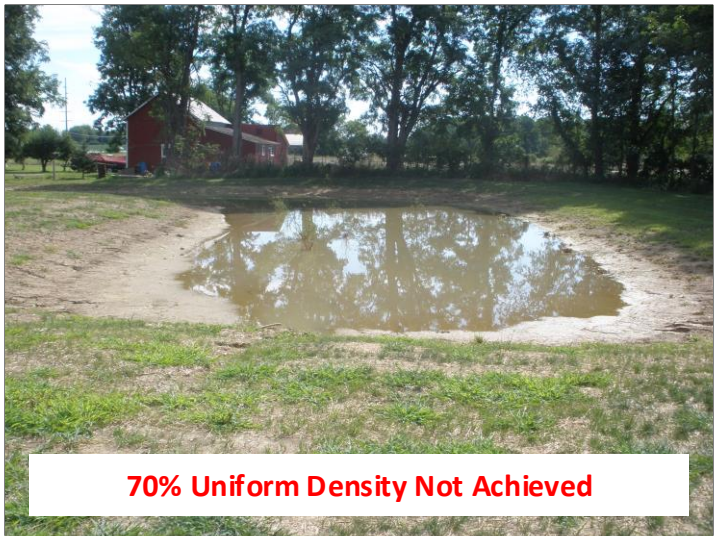
TIPPECANOE COUNTY
PARTNERSHIP FOR WATER QUALITY™

Temporary Seeding

Weeds do not Count as Temporary Stabilization

Inspect weekly & within 24 hours after a rain event of ½" or greater. Repair, re-seed and mulch eroded areas, rills and gullies. Control weeds with mowing.

Permanent Seeding



70% Uniform Density Not Achieved

Inspect weekly & within 24 hours after a rain event of ½" or greater. Repair damaged/eroded areas. If vegetation fails to grow, perform soil test and amend soil based on results.

Mulching

Mulch Not Applied Uniformly

Repair, re-seed and mulch eroded areas, rills and gullies. For severe/recurring erosion, implement additional BMP measure such as erosion control blanket.

Erosion Control Blanket

Blanket Not Installed Parallel with Water Flow

Check for displacement of the blanket and signs of erosion under the blanket. For eroded areas: pull back the blanket; add/tamp soil; re-seed; re-staple blanket.

Vegetative Buffer

Insufficient Buffer Depth

Mow vegetative buffer as needed, but not shorter than 4". If trapped sediment is observed/present, remove the accumulated sediment and regrade/reseed the disturbed area. Repair any small rills that may form. If width of vegetative buffer is insufficient, increase width of buffer.

Dewatering


Dewatering Bag At/Near Capacity

During inspections, check for erosion downstream of the dewatering bag. Check for tears in the dewatering bag; water and sediment capacity.

Rock Check Dam


Sediment Upstream of Check Dam Needs Removal

To ensure proper flow/operational parameters, accumulated sediment shall be removed when the sediment reaches ½ the height of the dam.

Concrete Washout

Container Loaded in Excess of 50% Capacity

Remove hardened concrete wastes and dispose of the material. Clean the washout when 50% of capacity is reached. The liner should be replaced after each cleaning.

Construction Entrance


Entrance Needs to be Redressed

Sweep/scrape/remove sediment, soil or mud that has been tracked or washed onto adjacent public roadways. Redress the entrance with #2 stone to provide voids for sediment capture.

Silt Fence


Silt Fence Damaged

Replace torn, damaged or decomposing silt fence. Remove accumulated sediment that bulges the silt fence or when sediment reaches ½ the height of the fence.

Filter Sock

Filter Socks No Longer Protecting Inlet

When accumulated sediment reaches ¼ the height of the filter sock, remove the sediment. Repair/replace damaged filter sock. If ponding is excessive, consider alternative BMPs.

Filter Berm

Accumulated Sediment Needs Removal

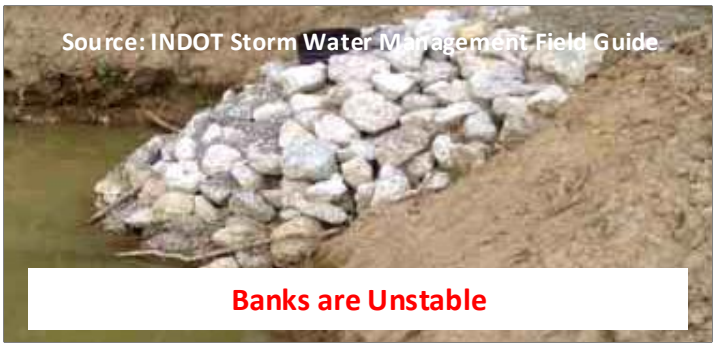
Repair eroded or damaged areas. When accumulated sediment reaches ¼ the height of the berm, remove the sediment. If ponding excessive, consider alternative BMPs.

Sediment Trap

Insufficient Filter Stone

Repair any embankment erosion. If pool area holds water for more than 72 hours, remove/replace filter stone. Remove sediment once sediment trap is ½ full of sediment.

Sediment Basin



Banks are Unstable

Repair any damage to Principal & Emergency Spillways. If pool area holds water for more than 72 hours, remove/replace filter stone. Remove sediment once design volume is reached (per SWPPP).

Inlet Protection

Inlet Protection is Missing; Sediment Needs Removal

Flushing with water to clean inlet protection is not allowed. After each storm event, remove sediment. If inlet protection measure is repeatedly clogging, consider additional BMPs upstream.

Culvert Inlet Protection

Culvert Inlet Protection is Missing

After each storm event, remove sediment. If filter stone is clogged/ choked, replace the filter stone. If inlet protection measure is repeatedly clogging, consider additional BMPs upstream

For detailed information on the maintenance of a particular BMP on a construction site, refer to the specifications contained with the approved SWPPP for your particular construction site. For technical reference information on construction site BMPs in general, refer to the following documents which were used in the preparation of this Fact Sheet:

- INDOT Storm Water Management Field Guide – 2015 (www.in.gov/indot)
- Indiana Storm Water Quality Manual (www.in.gov/idem/stormwater/2363.htm)

This Fact Sheet provided by the Tippecanoe County Partnership for Water Quality and was prepared by Christopher B. Burke Engineering, LLC

TIPPECANOE COUNTY PARTNERSHIP FOR WATER QUALITY

CBB CHRISTOPHER B. BURKE ENGINEERING, LLC